

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Martin Roland JENSEN et al

Appl. No.: 08/973,021

Group Art Unit 1636

Filed: January 29, 1998

Examiner Sandals

For: METHOD FOR IDENTIFICATION OF BIOLOGICALLY ACTIVE PEPTIDES AND
NUCLEIC ACIDS

AMENDMENT

RECEIVED

SEP 23 2000

Assistant Commissioner of Patents
Washington, D.C. 20231

TECH CENTER 1600/2900

Sir:

The instant paper responds to the Office action mailed April 26, 2000.

IN THE CLAIMS

Cancel claims 1-18, 20-26, 30, 31, 37-42, 48, 53, and 59-70, without prejudic or disclaimer.

Add the following claims.

--71. A method for identification of biologically active ribonucleic acids or peptides or cellular ligands to the biologically active ribonucleic acids or peptides, which comprises the steps of

- a) producing a pool of appropriate vectors each containing a DNA sequence to be examined,
- b) efficiently transducing said vectors into a number of identical eukaryotic cells in such a way that each cell expresses either a single ribonucleic acid and possibly peptide encoded by the DNA sequence to be examined or a limited number of different ribonucleic acids and peptides encoded by DNA sequences to be examined,
- c) screening said transduced cells to see whether some of them have altered a preselected phenotypic trait, wherein the preselected phenotypic trait has been so selected that an observed alteration thereof in a transduced cell provides an indication that said ribonucleic acid(s) or peptide(s) expressed in the transduced cell affects biological function(s) of the transduced cell, where said biological function(s) participate in generating the preselected phenotypic trait, and
- d) selecting and cloning cells which have altered the preselected phenotypic trait, wherein each vector in the pool of appropriate vectors in step (a) contains a synthetic totally random DNA sequence;